



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket: SOLK-100

Applicant : Sol KATZEN

Art Unit: 1651

Serial No. : 10/647,305

Filed : 08/26/2003

Title : PROCESS FOR TREATING SEA ALGAE AND
HALOPHYTIC PLANTS

ART STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

A copy of the International Search Report from applicant's corresponding International patent application is enclosed.

Enclosed is a copy of U.S. Patent No. 4,986,985 (Grossman et al.). The International Search Report cited Grossman et al. as being particularly relevant when combined with another reference in the same category (Category Y), cited column 1, lines 34 to 41, of Grossman et al. as being relevant, and cited Grossman et al. as being relevant to Claims 1 to 20 of applicant's corresponding International application.

Enclosed is a copy of U.S. Patent No. 5,648,313 (Pohl). The International Search Report cited Pohl as being particularly relevant when combined with another reference in the same category (Category Y), cited column 2, lines 31 to

44, of Pohl as being relevant, and cited Pohl as being relevant to Claims 1 to 20 of applicant's corresponding International patent application.

Enclosed is a copy of Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 489, that is discussed on page 1 of this application.

Enclosed is a copy of Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 89, that is discussed on page 2 of this application.

Enclosed is a copy of Agar, Oregon State University, (food.oregonstate.edu/gums.agar.html), (8/8/2003 AOL), update 7/14/2003, that is discussed on page 2 of this application.

Enclosed is a copy of Encyclopedia Britannica, Micropaedia, Vol. V, (1974), page 426, that is discussed on page 3 of this application.

Enclosed is a copy of What Is Carrageenan?, Tacara, (www.tacara.com.my/articles/carrageenan%20article1), (8/8/2003 AOL). that is discussed on pages 3 and 4 of this application.

Enclosed is a copy of AisonChem, (www.aisonschem.com.cn/carrageenan), (8/8/03 AOL), copyright 2003, that is discussed on pages 4 and 5 of this application.

Enclosed is a copy of Schenck, K., Wound dressings (1): Calcium alginates for moist wound treatment, WundForum Wound Care, (8/10/03 AOL), that is discussed on page 5 of this application.

Enclosed is a copy of Jork, A., et al., Appl. Microbiol. Biotechnol., (2000), 53: 224-229, that is discussed on page 5, of this application.

Enclosed is a copy of Marinalg Welcome,
(www.marinalg.org/products/algina_int), (8/8/2003 AOL), that is discussed on
pages 5 and 6 of this application.

Enclosed is a copy of Truus, Kalle, et al., Proc. Estonian Acad. Sci. Chem.,
(2001), 50, 2, 95-103, that is discussed on pages 6, 7 and 22 of this application.

Enclosed is a copy of Training Manual On Gracilaria Culture and Seaweed
Processing In China, Chapter III (Cont.), 3) Algin,
(www.fao.org/docrep/field/003/AB730E/AB730E04), (8/10/03 AOL), that is
discussed on pages 7 and 22 of this application.

A copy of the following references is also enclosed:

Flora Celtica, A Brief History of Scottish Seaweed Use,
(193.62.154.38/celtica/history.htm), (8/10/2003 AOL).

Wikipedia, Agar, (www.wikipedia.org/wiki/Agar), (8/8/2003).

Agar, substance obtained from seaweed, The Columbia Encyclopedia, 6th
Ed., (2001), (www.bartleby.com/65/ag/agar), (8/8/2003 AOL).

Sea Algae, (library.thinkquest.org/JO02608/sea_algae.htm), (8/7/2003
AOL).

Marine Plants, Algae Lecture, (darter.ocps.net/classroom/klenk/algae.htm),
(8/7/2003 AOL).

NII-REO, Journal of Applied Phycology, 11(6), p. 493-502, 1999, abstract,
([reo.nii.ac.jp/journal/HtmlIndicate/contents/SUP00000/000/JOU0001000266/ISSO](http://reo.nii.ac.jp/journal/HtmlIndicate/contents/SUP00000/000/JOU0001000266/ISSO...)
...), (08/10/2003 AOL), copyright 1999.

Saude, N., et al., Process Biochemistry 38 (2002) 273-278.

Seaweed's Nutritional Value, Fisheries Information Newsletter #95 (Oct.-Dec. 2000), www.spc.int/coastfish/News/Fish_news/95/NIAR_9, (08/10/2003 AOL).

Maneveldt, Gavin W., et al., Of dead man's fingers, cord weed and hanging wrack:..., (www.botany.uwc.ac.za/gavin/Pop_articles/Popart10), (08/10/2003 AOL).

Phycocolloid,
(www.botany.uwc.ac.za/algae/StudentAssignments/dalenorman98/types),
(8/10/2003 AOL).

Tidal Salt Marshes,
(ag.arizona.edu/azaqua/aquaplants/notes/MARSHES.HTM), (8/4/2003).

Wikipedia, Halophyte, (www.wikipedia.org/wiki/Halophytes), (8/4/2003 AOL).

Halophytes and Xerohalophytes,
(www.botgard.ucla.edu/html/botanyTextbooks/lifeforms/halophytes/), (8/4/2003 AOL).

Halophyte DataBase, Salt-Tolerant Plants & Their Use,
(www.ussl.ars.usda.gov/pls/caliche/halophyte.preface), (8/7/2003 AOL).

What are Halophytes?,
(www.usf.uni-osnabrueck.de/projects/expo2000/english/descript/descript)
(8/7/2003 AOL).

Training Manual On Gracilaria Culture and Seaweed Processing In China,

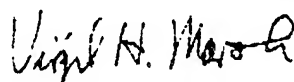
1) Agar, (www.fao.org/docrep/field.003/AB730E/AB730E03), (8/8/2003 AOL).

Alginate, Algin, Food Resource,

(food.oregonstate.edu/gums/alginates.html), (8/10/2003).

A list of the above-mentioned references is enclosed.

Respectfully submitted,



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Reg. No. 23,083

Date: Jan. 14, 2005

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Filing Date	08/26/2003
First Named Inventor	Sol KATZEN
Art Unit	1651
Examiner Name	
Attorney Docket Number	SOLK-100

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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		First Named Inventor	Sol KATZEN
		Art Unit	1651
Examiner Name			
Sheet 2		of 4	Attorney Docket Number SOLK-100

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 489	
		Encyclopedia Britannica, Macropedia, Vol. I, (1974), page 89	
		Agar, Oregon State University, (food.oregonstate.edu/gums.agar.html), (8/8/2003 AOL), update 7/14/2003	
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		Schenck, K., Wound dressings (1): Calcium alginates for moist wound treatment, WundForum Wound Care, (8/10/03 AOL)	
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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		Training Manual On Gracilaria Culture and Seaweed Processing In China, Chapter III (Cont.), 3) Algin, (www.fao.org/docrep/field/003/AB730E/AB730E04), (8/10/03 AOL)	
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		Wikipedia, Agar, (www.wikipedia.org/wiki/Agar), (8/8/2003).	
		Agar, substance obtained from seaweed, The Columbia Encyclopedia, 6th Ed., (2001), (www.bartleby.com/65/ag/agar), (8/8/2003 AOL)	
		Sea Algae, (library.thinkquest.org/JO02608/sea_algae.htm), (8/7/2003 AOL).	
		Marine Plants, Algae Lecture, (darter.ocps.net/classroom/klenk/algae.htm), (8/7/2003 AOL)	
		NII-REO, Journal of Applied Phycology, 11(6), p. 493-502, 1999, abstract, (reo.nii.ac.jp/journal/HtmlIndicate/contents/SUP00000/000/JOU0001000266/ISSO...), (08/10/2003 AOL), cop	
		Saude, N., et al., Process Biochemistry 38 (2002) 273-278	
		Seaweed's Nutritional Value, Fisheries Information Newsletter #95 (Oct.-Dec. 2000), www.spc.int/coastfish/News/Fish_news/95/NIAR_9), (08/10/2003 AOL)	
		Maneveldt, Gavin W., et al., Of dead man's fingers, cord weed and hanging wrack: ..., (www.botany.uwc.ac.za/gavin/Pop_articles/Popart10), (08/10/2003 AOL)	

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		Phycocolloid, (www.botony.uwc.ac.za/algae/StudentAssignments/dalenorman98/types), (8/10/2003 AOL)	
		Tidal Salt Marshes, (ag.arizona.edu/azaqua/aquaplants/notes/MARSHES.HTM), (8/4/2003)	
		Wikipedia, Halophyte, (www.wikipedia.org/wiki/Halophytes), (8/4/2003 AOL).	
		Halophytes and Xerohalophytes, (www.botgard.ucla.edu/html/botanyTextbooks/lifeforms/halophytes/), (8/4/2003 AOL)	
		Halophyte DataBase, Salt-Tolerant Plants & Their Use, (www.ussl.ars.usda.gov/pls/caliche/halophyte.preface), (8/7/2003 AOL)	
		Alginate, Algin, Food Resource, (food.oregonstate.edu/gums/alginates.html), (8/10/2003).	
		What are Halophytes?, (www.usf.uni-osnabrueck.de/projects/expo2000/english/descript/descript) (8/7/2003 AOL).	
		Training Manual On Gracilaria Culture and Seaweed Processing In Chinga, 1) Agar, (www.fao.org/docrep/field.003/AB730E/AB730E03), (8/8/2003 AOL).	

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